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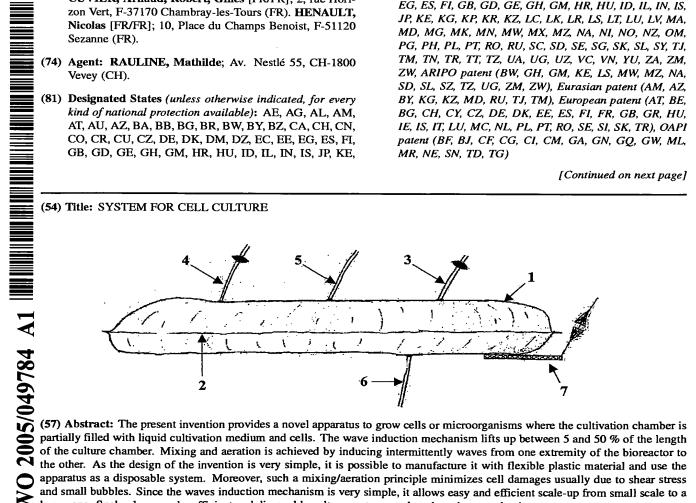
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apparatus as a disposable system. Moreover, such a mixing/aeration principle minimizes cell damages usually due to shear stress and small bubbles. Since the waves induction mechanism is very simple, it allows easy and efficient scale-up from small scale to a larger one. Such a large-scale, efficient and disposable culture system can largely reduce production costs.



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